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DESIGN MEMORANDUM NO. 4-10

**TO: Chief District Engineers
Design Engineers
Active Consultants**

FROM: Jeff Jasper, P.E. 
Director
Division of Highway Design

DATE: July 20, 2010

**SUBJECT: Drainage Manual
DR-400 Hydrology
DR-1101 Temporary Drainage Structures**

Effective with this memorandum the subject chapter and section listed above are released as official policy. The drafts of these documents as well as an updated working table of contents can be found on the drainage website at <http://transportation.ky.gov/design/drainage/drainage.html>

The hydrology chapter represents a significant change in how watershed calculations are made. Many of the software applications that are currently being used will have to be modified or discontinued altogether. The QWAYS module of KTDID will not perform the hydrologic calculations as specified in the new version of DR 400. The drainage website listed above contains a guidance document titled "KYTC Hydrologic Calculation Software Recommendations" that provides guidance on software applications that perform hydrologic calculations.

This policy should be used for all projects that have not advanced past the preliminary folder stage. However project managers may elect to use the new policies for any project.

These drafts have references to chapters that have not been completed yet. When this occurs, use the policy contained in the existing manual.

During this transition period, documentation should be included in the drainage folders indicating the criteria used.

JDJ/WDM



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